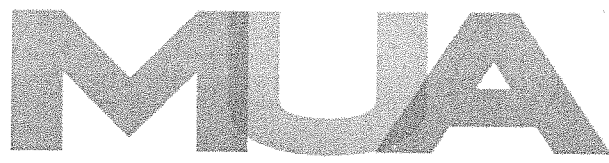


The
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UNDERGRADUATE UNIVERSITY EXAMINATIONS

SCHOOL OF MANAGEMENT AND LEADERSHIP

**DEGREE OF BACHELOR OF ARTS IN DEVELOPMENT STUDIES
AND BACHELOR OF MANAGEMENT AND LEADERSHIP**

UCU 103 : INTRODUCTION TO LOGIC AND CRITICAL THINKING

DATE: 4TH APRIL 2017

DURATION: 2 HOURS

MAXIMUM MARKS: 70

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

QUESTION ONE

Read the Case Study below carefully and answer the questions that follow:

People of the coma rock, I have returned. The hour of your redemption is here. Rally to me. Let the indomitable spirit of Bataan and Corregidor lead on. As the lines of battle roll forward to bring you within the zone of operations, rise and strike. For future generation of your sons and daughters, strike. Let no heart be faint. Let every arm be steeled. The guidance of divine God points the way. Follow in his name to the Holy Grail of righteous victory.

A parent would never give a ten- year-old the car key, fix him on a martini, or let him wander at night through a dangerous part of town. The same holds true of the internet. Watch what children access, but leave the net alone. Regulation is no substitute for responsibilities.

My dear ladies, I am sick of women's rights. Every time one turns on the news we hear about some form of discrimination against some poor female who wants to be firemen- or some remark that suggests or implies women are inferior to men. I, for one, do not want to be rescued by a woman fireman, especially if I am 6-foot-2 male and she is a 5-foot-6 female. Why is it that women find their " role" so degrading? What is wrong with being a wife and mother, staying home while the male goes out and "hunts for food" and brings it home to his family?

I don't think women have proven themselves to be as inventive, as capable (on the average) of world leadership, as physically capable, or as "courageous" as men. They have yet to fight a war (the average Kenyan woman) and let's face it ladies, who wants to? Whether a person is female, black, white, handicapped- whatever- ability is what counts in the final analysis. Women cannot demand "equality" -no one can - unless it is earned.

When push comes to shove and a damsel is in distress, she is hard-pressed to protect herself and usually has to be rescued by a man. Until I can move a piano, beat off a potential robber or rapist, or fight a war, I am quite content to be a woman, thank you

Required:

- i. Define the term logic and discuss the components of an argument (7 marks)

- ii. identify any 6 fallacies committed in the above argument, giving their brief explanation (12 marks)
- iii. Explain three reasons why the above fallacies could have been committed (6 marks)

QUESTION TWO

- a) Describe a necessary condition (2 marks)
- b) Draw a Venn diagram consisting of two circles. Let circle one represent men and circle two represent animals. Name common region (B), region in circle one only (A), region in circle two only (C), and region outside the Venn diagram (D). Then use your drawn diagram to answer the following questions (6 marks)
 - i. With reasons, explain what regions A, B, C and D represent (5 marks)
 - ii. list any two items expected to be found in region D (2 Marks)

QUESTION THREE

- i. Discuss a "disjunctive syllogism" (3 marks)
- ii. With reasons, state whether the following arguments are cogent, sound or not
 - a) All animals are birds
All birds are snakes
Therefore all animals are snakes (4 Marks)
 - b) All mammal are animals
All men are mammals
Therefore all men are animals (4 Marks)
 - c) Since John loves Nancy and Nancy loves Peter,
it follows necessarily that John loves Peter (4 marks)

QUESTION FOUR

Prove the validity of the following argument using Modern Square of opposition

"All foolish girls are people who do not mind about others since it is false that some girls are not people who do not mind about others" (15 marks)

QUESTION FIVE

a) Critique the statement that

"Since Kilwa was smiling most of the time during his logic CAT, he must have been admiring his only girlfriend in the class" (5 Marks)

b) Eva did an experiment whose results were represented in form a xy graph. From the graph, it could be seen that as x increased, so did y

Required:

- i. Draw the graph that represented Eva's findings (2 marks)
- ii. Discuss the possible variables (represented by x and y) that Eva could have worked with (2 marks)
- iii. What possible conclusions can you draw from Eva's findings (6 marks)

QUESTION SIX

Discuss the various steps that you would apply to differentiate:

- a. An argument from non-arguments (10 marks)
- b. A formal fallacy from an informal fallacy (5 marks)